TeCom-DualBand

VHF & UHF
Handheld Transceiver

User's Manual

TEAM electronic

Dear customer,

Thank you for buying a TEAM product. TEAM Electronic stands for high-quality radio communication.
TeCom-DualBand is a unique combined UHF & VHFhandheld transceiver that is easy to operate and it offers a wide range of functionality.

PR8056 TeCom-DualBand PMR/FreeNet : programmed with 8 PMR* & 6 FreeNet** channels, 500 mW tx power, bandwidth 12.5 kHz, no registration or fees apply

PR8069 TeCom-DualBand PMR : programmed with 8 PMR* channels, 500 mW tx power, bandwidth 12.5 kHz, no registration or fees apply

PR5058 TeCom-DualBand COM : commercial radio; 128 channels programmable; registration and fees apply
VHF 136-174 MHz / max. 5 W
UHF 403-480 MHz / max. 4 W

PR8057 TeCom-DualBand HAM : amateur radio; 128 channels programmable; licence required
VHF 144-146 Mhz / max. 5 W
UHF 430-440 MHz / max. 4 W
manual frequency mode (VFO) and storage of manually set frequency, as well as setup of step size, bandwidth, repeater shift, tx-power, beside the other available functions

Safety
It is important that the user understands hazards related to the operation of any transceiver.

Warning!
Turn off your transceiver prior to entering any area with a potentially explosive atmosphere (where the air contains gas, dust and smog, etc.), e.g. gasoline service stations.

Precautions in Use
Please follow the instructions to avoid fire, bodily injury and damage of the transceiver.

It is recommended not to exceed the maximum duration for transmission (1 minute) and reception (4 minutes) since these operation tasks generate heat. Too much heat may cause damage.

Please do not disassemble or assemble the transceiver under any circumstances.

Please do not expose the transceiver to direct sunlight for a long time; do not place the transceiver near any heating devices, either.

Please do not put the transceiver in extremely dusty or moist places; do not place it on unstable surfaces, either.

If the transceiver emits smoke or strange odors, turn it off, remove the battery from the transceiver and immediately contact your authorized, local TEAM Electronic dealer.

Table of Contents

	Page
Scope of Delivery	19
Description of Transceiver	19 - 20
LC Display	20
PREPARATION	
General Battery Precautions	21 - 22
Charging Precautions	23
Battery Charging	23
BASIC OPERATION	24 - 25
Battery Pack	24
Charging	24
On / Off	24
Channel Select	24
Transmit	24
Side Key 1 PF1	24
Side Key 2 PF2	25
MENU FUNCTIONS	25 - 27

01 Step Size	02 Squelch Level (SQL-LE)
03 Batterypack Savemode°	04 TX-Power° (Low/High)
05 Roger Beep Tone	06 Transmit Over Time (TOT)
07 VOX	08 Bandwidth° (Wide/Narrow)
09 Voice Prompt	10 Transmit Overtime Alarm
11 Beep Prompt	12 Power On Message
13 Busy Channel Lockout	14 Automatic Keylock
15 Receiving CTC	16 Transmitting CTC
17 Receiving DCS	18 Transmitting DCS
19 Scan	20 PF1
21 Channel Mode	22 Auto Back Light (ABR)
23 Offset°	24 Shift (+ / -)°
25 Stopwatch	26 Channel Name
27 Memory Channels°	28 Delete Channel°
29 Reset	° = nur in HAM Version verfügbar

MISCELLANEOUS	
Speed Search	27
A/B Switch (12)	27
TDR (4)	27
Scan Key (6)	28
1750Hz Burst Tone	28
Keylock	28
SOS Function	28
Radio	28
Password Security	28
Low Battery Alert	29
Transmit Overtime Alert	29
Wire Cloning	29
DTMF	29
ANI	29
Priority Channel	29
SPECIFICATIONS	30
CTCSS / DCS CODES	31

Scope of Delivery

Unpack the equipment carefully. We recommend you to identify the listed items before discarding the packing material. If any items are missing or have been damaged during shipment, please contact the dealer immediately.

Supplied Accessories

1 x Antenna (attached with PMR version)
1 x Charger
1 x Belt clip
1 x User's Manual
1 x Battery
1 x Hand strap

Transceiver

Antenna

Li Ion Battery Pack

Intelligent Charger

Beltclip

Wrist Band

User's Manual

Description of Transceiver

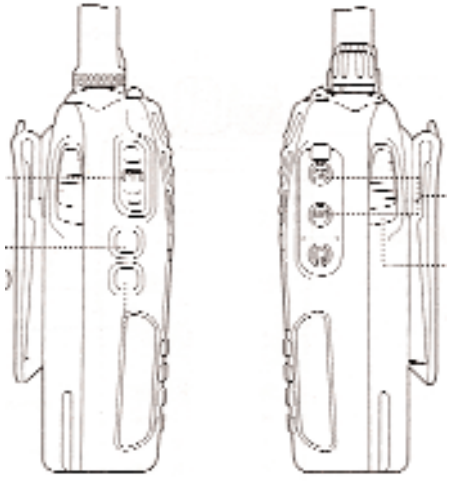
(15) Flashligh
(14) Antenna
(13) Receive-LED
(12) A/B key for Master Frequency
(11) LCD
(10) Menu key
(9) numeric keys
(8) Up / Down

(1) rotary channel selector
(2) On/Off & Volume Control
(3) Transmit-LED
(4) Single / Dual band key
(5) Exit key
(6) Frequency Reverse / Scan key
(7) Keylock / Stopwatch key

(16) PTT (Push-To-Talk) key

(17) PF1 - Side Key 1 :
Scan / Lamp /
SOS-CH / Radio

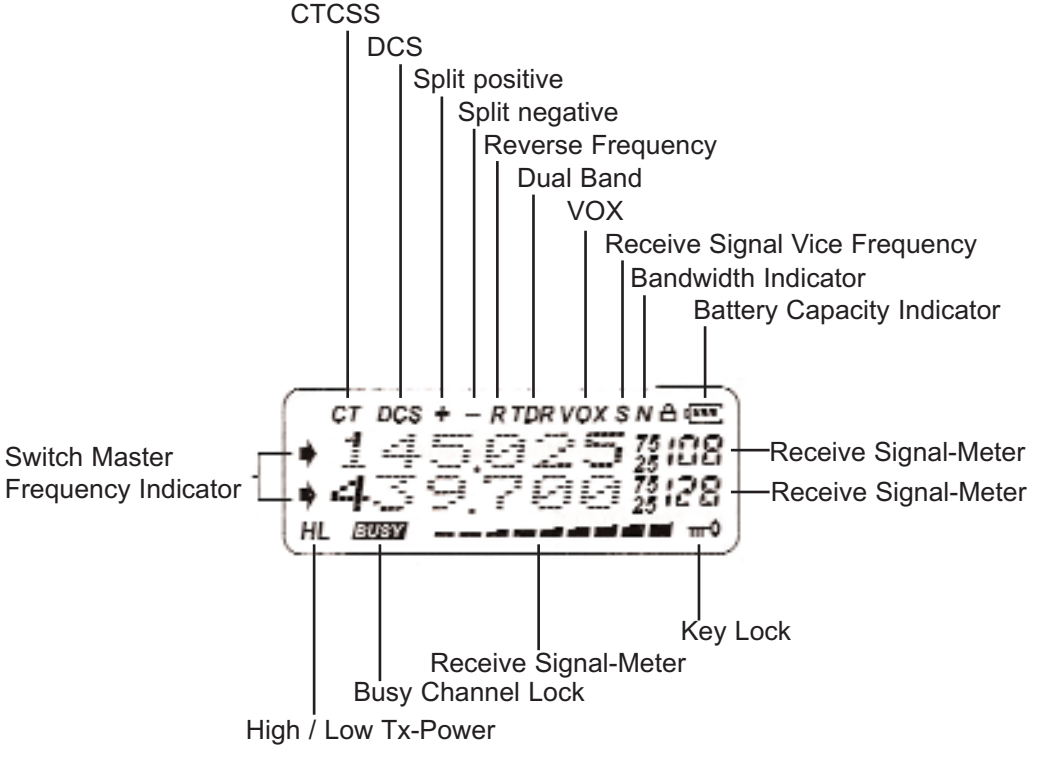
(18) PF2 - Side Key 2 :
long press : monitor
short press: flashlight



(20) Speaker /
Microphone Jacks

(21) Battery Latches

LCD Display



PREPARATION

General Battery Precautions

CAUTION

- Do not attempt to charge a fully charged battery pack. Doing so, may shorten the life-time of the battery pack or the battery pack may get damaged.
- Upon completion of charging process, disconnect the battery pack from the charger. If the charger power is reset (turned ON after being turned OFF), recharging will start again and the battery pack will be over-charged.
- Do not use the transceiver while charging the battery pack. We recommend to switch the transceiver power OFF during charging.
- Do not expose the battery pack to heat or fire.
- Never attempt to remove the casing from the battery pack.

DANGER!

- Do not disassemble or reconstruct the battery pack!
  The battery pack has a safety function and protection circuit to avoid danger. If they suffer serious damage, the battery may generate heat or smoke, rupture, or burst into flame.
- Do not short-circuit the battery!
  Do not join the + and - terminals using any form of metal (such as a paperclip or wire). Do not carry or store the battery pack in containers holding metal objects (such as wires, chain-necklace or hairpins). If the battery pack is short-circuited, excessive current will flow and the battery may generate heat or smoke, rupture, or burst into flame. It will also cause metal object to heat up.
- Do not apply heat to the battery!
  If the insulator is melted, the gas release vent or safety function is damaged, or the electrolyte is ignited, the battery may generate heat or smoke, rupture, or burst into flame.
- Do not place the battery near fires, stoves, or other heat sources!
  If the polymer separator melts due to high temperature, an internal short-circuit may occur in the individual cells and the battery may generate heat or smoke, rupture, or burst into flame.
- Do not immerse the battery in water or get it wet by other means!
  If the battery's protection circuit is damaged, the battery may charge at extreme current (or voltage) and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.
- Do not charge the battery near fires or under direct sunlight!
  If the battery's protection circuit is damaged, the battery may charge at extreme current (or voltage) and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.
- Use only the specified charger and observe charging requirements!
  If the battery is charged in unspecified conditions (under high temperature over the regulated value, excessive high voltage or current over regulated value, or with a remodeled charger), it may overcharge or an abnormal chemical reaction may occur. The battery may generate heat or smoke, or burst into flame.

- *Do not pierce or strike the battery with any object or step on it!*
  This may break or deform the battery, causing a short circuit. The battery may generate heat or smoke, rupture, or burst into flame.
- *Do not jar or throw the battery!*
  An impact may cause the battery to leak, generate heat or smoke, rupture, and/or burst into flame. If the battery's protection circuit is damaged, the battery may charge at an abnormal current (or voltage), and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.
- *Do not use the battery pack if it is damaged in any way!*
  The battery may generate heat or smoke, rupture, or burst into flame.
- *Do not solder directly onto the battery!*
  If the insulator is melted or the gas release vent or safety function is damaged, the battery may generate heat or smoke, rupture, or burst into flame.
- *Do not reverse the battery polarity (and terminals)!*
  When charging a reversed battery, an abnormal chemical reaction may occur. In some cases, an unexpected large amount of current may flow upon discharging. The battery may generate heat or smoke, rupture, or burst into flame.
- *Do not reverse-charge or reverse-connect the battery!*
  The battery pack has positive and negative poles. If the battery pack does not smoothly connect with a charger or operating equipment, do not force it; check the polarity of the battery. If the battery pack is reverse-connected to the charger, it will be reverse-charged and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.
- *Do not touch a ruptured and leaking battery!*
  If the electrolyte liquid from the battery gets into your eyes, wash your eyes out with fresh water as soon as possible, without rubbing your eyes. Go to the hospital immediately. If left untreated, it may cause eye-problems.

WARNING

- Do not charge the battery for longer than the specified time!
  If the battery pack has not finished charging even after the regulated time has passed, stop the charging process. The battery may generate heat or smoke, rupture, or burst into flame.
- Do not place the battery pack into a microwave or high pressure container!
  The battery may generate heat or smoke, rupture, or burst into flame.
- Keep ruptured and leaking battery packs away from fire!
  If the battery pack is leaking (or the battery emits a bad odor), immediately remove it from flammable areas. Electrolyte leaking from battery can easily catch on fire and cause the battery to generate smoke or burst into flame.
- Do not use an abnormal battery!
  If the battery pack emits a bad odor, appears to have different coloring, is deformed, or seems abnormal for any other reason, remove it from the charger or operating equipment and do not use it. The battery may generate heat or smoke, rupture, or burst into flame.

Charging Precautions

The transceiver is equipped with a TEAM Li-Ion battery pack (7.4 V / 1300 mAh). The following tips help you to obtain the best battery performance and a prolonged battery life.

- Charge the new battery pack continuously for 4~5 hours before its initial using, which ensures the maximum battery capacity and best performance in using.
- Do not attempt to charge the TEAM battery pack in any other charger than the one included in the scope of delivery.
- The battery pack can be charged while in the transceiver, and to ensure it is fully charged it's recommended to charge the battery pack with the transceiver turned off.
- The ideal temperature to store the battery pack is 25 °C (room temperature). Charging the battery pack at a low temperature (below 0°C) will cause electrolyte leakage and damage to the battery pack.
- Charging the battery pack at a high temperature (above 35 °C) will cause decrease in battery discharge capacity and affect the transceiver performance.
- The new or used battery should be stored in a cool and dry place.
- If recharge the battery pack after long storage, you should charge it continuously for 4~5 hours.
- Do not leave the transceiver and the battery in the charger when not charging. Over-charging will shorten the battery's life. Do not use the charger as a base station.
- After the battery life expires, the Li-Ion battery pack has to be recycled appropriately.

Battery Charging

A new battery, or a battery with low power level needs to be charged completely.

Red LED - Red The battery is in the state of charging.
Green LED - Green The battery is fully charged

1) Plug the adapter into an AC wall outlet. The LED will light red for a short time before it turns off. Now, the charger is ready to be used.

2) Place the battery or transceiver into the charger slot. The LED starts blinking every two seconds. Charging time depends on battery capacity. When battery is fully charged, the LED turns green.

Notes:

1) The battery is not fully charged in the factory.
   Before the initial use, please charge the new battery continuously for 4~5 hours.
2) The charger will stop charging and the left, red LED will go off. If the charger detects a damaged battery or if the temperature of the battery is too high, then the right LED will light yellow.
3) The charger detects if the battery is fully charged and stops charging.

BASIC OPERATION

Battery Pack

Place the three counter-pieces at the bottom of the battery pack into the according holes at the rear of the radio and press the top of the battery pack against the radio until it snaps in.

To remove the battery pack, push down the two battery latches (21), located at the left and right side, with your thumb and index finger and pull the battery pack gently away from the radio.

Charging

Insert the AC plug of the charger into 220V outlet. For a brief moment, the LED lights red to indicate stand-by charging mode.

During charging the LED lights red. Once charging is completed the LED lights green.

Important:

> Please remove the radio out of the charger once charging is completed.
> Do not use the charger as a base station.
> Only charge empty battery packs.
> Do not remove the radio out of the charger until the charging process is completed.

On / Off

Please note that the battery pack needs to be fully charged prior to first use.

Turn on the radio by turning the rotary On/Off-Volume knob clockwise over the barrier.

To set a comfortable volume level, press the monitor key [PF2] (18) - a constant noise will be heard - and adjust the volume.

Channel Select

To select the channel for transmission and reception, set the frequency band where the channel is located with the A/B switch. Next, select the channel either with the Up ▲ / Down ▼ keys (8) or with the rotary channel selector (1).

Transmit

To transmit press the PTT key (16). Talk in a distance of approximately 10 cm into the microphone, which is located on the front plate, above the A/B switch (12).

Side Key 1 PF1

The PF1 key (17), right under the PTT key (16) can be programmed with these functions:

Off	: no function
Scan	: on / off scan function
Lamp	: on / off flashlight function
SOS-CH	: on / off emergency mode
radio	: on / off fm-radio

For instructions how to program the PF1 key, please check under *Menu - PF1*.

Side Key 2 PF2

The PF2 key (18), located under the PF1 key (16), is a dual-function key that is pre-programmed with the flashlight function and the monitor function.

To turn the flashlight on / off, press the PF2 key shortly.

To acitvate the monitor function, press the PF2 key long. After one second the monitor function starts and will be active as long as the PF2 key is pressed.

MENU

1. Enter the menu by pressing the MENU key (10).
2. Select the function by turning the channel selector or by entering the function number via the number keypad.
3. Access the selected functions parameter by pressing the MENU key (10) and set the parameter with the ▲ or ▼ key (8).
4. Confirm your selection by pressing the MENU key (10) again.
5. To return to StandyBy press the EXIT key (5).

01 Step Size	Step Size (STEP) Only available in the HAM version 5 / 6.25 /10 / 12.5 / 25 / 50 / 100 kHz
02 Squelch Level (SQL-LE)	Squelch levels 0 - 9 0 = squelch open, receives all signals 9 = squelch opens on very strong signals
03 Batterypack Savemode	On / Off
04 TX-Power° (Low / High)	Tx Power (TXP) Only available in the HAM version HIGH = high tx power / LOW = low tx power
05 Roger Beep Tone	Voice Prompt : OFF / BOT* / EOT° / Both
06 Transmit Over Time (TOT)	OFF / 15 - 600 s in 15-second-steps Transmission aborted after expired time; release PTT for reset
07 VOX	OFF / level 1 - 9 (1 = least sensitive) Voice operated transmission;
08 Bandwidth° (Wide/Narrow)	Bandwidth (WN) Only available in the HAM version WIDE = 25 kHz / NARR = 12,5 kHz
09 Voice Prompt	OFF / English prompts in english language
10 Transmit Overtime Alarm	OFF / 1 - 9 s warns prior to expiration of TOT
11 Beep Prompt	ON / OFF - warn tone
12 Power On Message	OFF / BATT / MSG OFF : displays full display BATT : displays current voltage level MSG : displays TEAM Welcome
13 Busy Channel Lockout	ON / OFF No transmission on busy channels

.

* Beginning of Transmission; Upon pressing PTT key

° End of Transmission; Upon release of PTT key

14 Automatic Keylock	ON / OFF If no function key is pressed within 15 s, the key-lock function is automatically activated. The key symbol appears in the right, lower corner of the display. The stopwatch function (25) has to be set off
15 Receiving CTC	OFF / 50 CTCSS codes select one out of 50 DCS codes for receiving frequencies; 67 kHz - 254.1 kHz
16 Transmitting CTC	OFF / 50 CTCSS codes select one out of 50 DCS codes for transmitting frequencies; 67 kHz - 254.1 kHz
17 Receiving DCS	OFF / 105 DCS codes select one out of 105 DCS codes for receiving frequencies; DO23N / I - DO754N / I
18 Transmitting DCS	OFF / 105 DCS codes select one out of 105 DCS codes for transmitting frequencies; DO23N / I - DO754N / I
19 Scan	TO (Time Scanning - pauses scanning upon reception of signal and continous scanning after 5 s of no operation) CO (Carrier Mode 1 - pauses scanning once signal is received and continous scanning after 3 s of disappearance of signal) / SE (Carrier Mode 2 - scanning stops once signal is received)
20 PF1	SCAN / LAMP / SOS-CH / RADIO / OFF select one available functions
21 Channel Mode	select display mode CH (displays channel no.) CH FREQ (displays channel frequency) NAME (displays channel name)
22 Auto Back Light (ABR)	ON / OFF
23 Offset°	Frequency Shift (0 - 69,950 MHz) Only available in the HAM version Enter the frequency shift via the Up ▲ / Down ▼ (8) keys or the rotary channel selector ().
24 Shift (+ / -)°	Frequency Shift High / Low Only available in the HAM version - determines if in function 23 (offset) set frequency offset is shifted above (+) or below (-) the transmitting frequency. The according symbol (+, -) appears in the display.

25 Stopwatch	ON / OFF - press key keylock (7) to start, press any key to stop function
26 Channel Name	max. 6 digits composed of letters (A-Z), numbers (0-9) and signs (?, +, -); select digits with up key ▲ (8) or by turning channel selector clockwise. To switch cursor to the next digit, turn channel selector counter-clockwise
27 Memory Channels (MEM-CH)	in ***VFO-Mode*** (only HAM version): to store manually set frequencies in ***channel mode***: to copy pre-programmed frequencies : 1. Select the channel to be stored. 2. Press the menu key (10) and select the function 27 MEM-CH. 3. Press the menu key (10) and select a channel where the selected frequency is to be stored. 4. Press the menu key (10) to confirm the selection Comes handy when using different CTCSS/DCS codes for one frequency.
28 Delete Channel (DEL-CH)	This function is only available in the HAM version. In VFO mode, manually stored frequencies are to be deleted with this function 1. Press the menu key (10) and select the function 28 Delete Channel (DEL-CH). 2. Press the menu key (10) and select the channel to be deleted with the channel selection Up ▲ / Down ▼ keys (8). 3. Press the menu key (10) and select the the function 28 Delete Channel (DEL-CH).
29 Reset	For reset to default settings: 1. press menu key (10) & select RESET function 29 2. press menu key (10) & select ALL 3. press menu key (10) & enter password if programmed in software; Display shows WAIT. Reset is performed, menu is exited and radio automatically returns to basic operation.

MISCELLANEOUS

Speed Search

Long press of the up ▲ or down ▼ key runs through the menu or channels at an accelerated speed.

A/B (12)

In single band mode, the A/B key (12) switches between the frequency bands UHF and VHF. In dual band mode there are two frequencies displayed. Use the A/B key to determine master- and vice frequency. Master frequency is for reception and transmission - on vice frequency only reception is possible.

Is a signal received on vice frequency, the letter S appears in the upper right side of the display. Selection of the master frequency is done by the A/B key (12), indicated by a black arrow on the left side of the display.

TDR (4)

Switch between single / dual band display. By default, the dual band display is activated. To switch to the single band display press the TDR key. In single mode display, always the master frequency is set. To change the master frequency switch to dual band display, and set the master frequency with the A/B key - the arrow on the left side indicates the master frequency.

Scan Key (6)

The Scan key (6) is a dual-function key that controls the functions *Frequency-Reverse* and *Scan*.

The Frequency-Reverse function is only usable for the COM version that permits different frequencies for transmitting and reception. When pressing the Scan key shortly, transmitting and reception frequencies are reversed. The letter *R*, in the upper row of the the display, indicates the activated status of the Frequency-Reverse function.

To activate the Scan function, press the key for a longer period of time. The letter R appears and disappears, then the scan function starts.

1750Hz Burst Tone

To send 1750 Hz tone for repeater operation, press PTT (16) and PF1 (17) at the same time .

Keylock

Press the keylock key (7) for approximately one second to activate / deactivate the keylock function. All keys will be locked except for PTT, monitor and volume.

SOS Function

An SOS signal is transmitted on the actual channel of the selected band (A or B) while on the transmitting radio the SOS signal is audible and the flashlight blinks. The SOS cycle will be active for 10 seconds every 5 minutes. To abort the actual cycle press any key.

Radio

Scan the radio frequency band (76 - 108 MHz) by pressing the scan key (6). The scan function will stop automatically on an occupied radio station.
To manually set the radio frequency, use the channel selector knob.
A maximum of eighteen radio frequencies can be stored in two banks. To store a radio station follow these steps:

1. Turn on the radio.
2. Set radio station to be stored either manually or via scan function.
3. Select the desired bank (TEAM1 or TEAM2) where the station is to be stored by pressing the keylock button (7), e.g. TEAM2.
4. Press Menu key (10) - the display shows *Save?*
5. Press memory space 1 - 9 to store radio station, e.g. press ROGER5.

To recall a stored radio channel:

1. Turn on the radio function
2. Select a bank by pressing the keylock key, e.g. TEAM2
3. Select a radio station by selecting a memory space, e.g. ROGER5.

The current frequency is still working while the radio is on. Upon reception of a signal, the radio function pauses until the signal disappears. After five seconds the radio function continues. When pressing the PTT key, radio function is immediately paused and will continue a few seconds after release of PTT key.

Password Security

For security reasons and to avoid unintended resets, a password can be set up via the software T-UP14. For more details, see software manual.

Low Battery Alert

When the voltage of the battery pack drops below a critical level, the transceiver beeps and the display flahses every 5 seconds.

Transmit Overtime Alert

When programmed transmit-over-time is expired, the transceiver will beep and transmission will stop. To start transmission again, release and press PTT again.

Wire Cloning

To wire-clone another TeCom-DualBand, the optional cloning-cable is required.
Connect the two radios via cloning-cable and press the MONI key (18) to start cloning.

Source-Radio : LED flashes red during cloning and stops flashing after successful procedure. LED lights continously is case of cloning failure.

Target-Radio : LED flashes green during cloning and stops flashing upon completed procedure.

DTMF

DTMF can be send manually via the keypad. Next to the number keys 0 - 9, there are four more keys available:

MENU: A
▲ : B
▼ : C
EXIT : D

To manually send the DTMF code, hold the PTT key (10), while entering the DTMF code.

ANI

The radio contains the function ANI (automatic number identification). Via software, a 6-digit DTMF code can be programmed. For the codes, the symbols 0 - 9, A, B, C and D are available.
The code can be send manually or automatically via PTT push. The receiver will be able to see the ANI code of the transmitter, as long as this function is available.
For more details about programming this function, see manual T-UP14.

Priority Channel

Via software a priority channel can be set. During scanning, this priority channel will be scanned between the regular channels of the scan list.

Example:

Priority Channel : 8
Scan List : 1, 2, 3, 4
Scan : 1 - 8 - 2 - 8 - 3 - 8 - 4 - 8

SPECIFICATION

Frequency Range	136-174MHz & 400-470MHz
Memory Channels	128 channels
Frequency Stability	±2.5ppm
Operating Voltage	7.4V
Operating Temperature	-30°C ~ +60°C
Antenna Impedance	50W
Dimension	58 × 105 × 38 mm
Weight	250g

Transmitter

Frequency Stability	±2.5PPM
RF Carrier Power	UHF: 4W VHF: 5W
Effective Radiation Power (ERP)	within pre-determined value ±7.5dB
Max. Frequency Deviation	25KHz : ±5KHz 12.5KHz: ±2.5KHz
Audio Modulation	+3dB (pre-emphasis by 6dB between 0.3-3KHz)
Adjacent Channel Power	25KHz : ?70 dB
Channel Space	12.5KHz: ?60 dB
Spurious Radiation	?-30dBm
Inter modulation Attenuation	?40dB
Modulation Distortion	£10%
Residual FM	£-35dB
Residual AM	£3%

Receiver

Sensitivity (12dB SINAD)	0.16μV
Squelch Rejection Sensitivity	£0.8μV
Squelch Sensitivity	£0.2μV
Audio Output power	500mW
Audio Distortion	£5%
Audio Response	(300-3000Hz) +1 to -3dB
Co-channel Rejection	?-8.0dB
Performance of Amplitude Limiter	£3
Adjacent Channel Selection	25KHz : ?70 dB 12.5KHz: ?60 dB
Inter-Modulation	?65 dB
Resistance	?84 dB

50 CTCSS frequency code (Hz)

67.0	85.4	107.2	136.5	165.5	186.2	210.7	254.1
69.3	88.5	110.9	141.3	167.9	189.9	218.1	
71.9	91.5	114.8	146.2	171.3	192.8	225.7	
74.4	94.8	118.8	151.4	173.8	196.6	229.1	
77.0	97.4	123.0	156.7	177.3	199.5	233.6	
79.7	100.0	127.3	159.8	179.9	203.5	241.8	
82.5	103.5	131.8	162.2	183.5	206.5	250.3	

104+1 DCS code

023	065	132	205	255	331	413	465	612	723
025	071	134	212	261	332	423	466	624	731
026	072	143	223	263	343	431	503	627	732
031	073	145	225	265	346	432	506	631	734
032	074	152	226	266	351	445	516	632	743
036	114	155	243	271	356	446	523	645	754
043	115	156	244	274	364	452	526	654	
047	116	162	245	306	365	454	532	662	
051	122	165	246	311	371	455	546	664	
053	125	172	251	315	411	462	565	703	
054	131	174	252	325	412	464	606	712	

For sale and use in :

WEEE - Reg. Nr. DE 91930360 8 (EAR), 50635 (ERA)

GRS-Nr. 10001374

DSD 2617305, ARA 2284

RoHS COMPLIANT